

T5 FREEZER LIGHT

FZL

SUBMITTAL:

T5

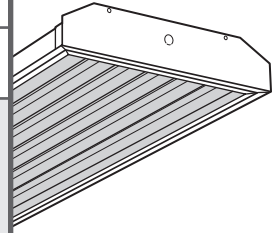
JOB:

TYPE:

VOLTAGE:

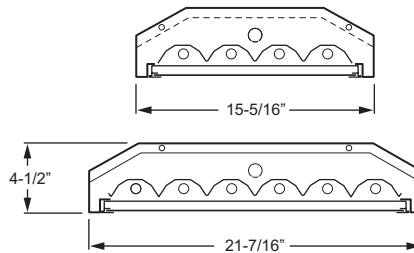
EXAMPLE → **FZL - 4 - 4 54T5H - MD - F CHA118 - OPTIONS - EB2/2 - UNV**

SERIES NOMINAL LENGTH TOTAL LAMPS WATTAGE/TYPE DISTRIBUTION DOOR FRAME SHIELDING OPTIONS/ACCESSORIES BALLAST TYPE VOLTAGE



FEATURES

- ▶ Steel fixture housing is designed to maximize heat retention and operate in extremely cold conditions as low as -29°C (-20°F).
- ▶ Up to **88.9% optical efficiency**.
- ▶ Optional energy saving occupancy sensors available.
- ▶ Unlike HID, T5HO lamps maintain 95% of their original output and provide much better color rendition.
- ▶ Fully enclosed spring-loaded cam latches provide years of hassle-free maintenance.
- ▶ Quick-wire access plate in back of fixture housing allows easy attachment of incoming power supply.
- ▶ Double-gasketed lens retains heat.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – 20-gauge die-formed C.R.S.

Door Frame – Extruded aluminum, double-gasketed door frame. T-slot steel hinge allows reversible hinging and latching.

Shielding – Clear, high-temperature, non-prismatic, acrylic, .118" thick.

Reflector – Precision-formed 95% reflective highly specular aluminum.

Finish – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

Electrical – Electronic ballast standard, program start T5, rated Class P. Rated -29°C (-20°F) minimum starting temperature.

Mounting – Suspended (see options in ordering information).

Labels – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

ORDERING INFORMATION

SERIES

FZL T5 Freezer Light

NOMINAL LENGTH

4 4'

TOTAL LAMPS

4 or 6

LAMP WATTAGE/TYPE

54T5H 4', 54-watt T5HO

DISTRIBUTION

MD Medium distribution, highly specular reflector (standard)

WD Wide distribution, white reflector

DOOR FRAME

F White flat aluminum

SHIELDING

CHA118 Clear, high-temperature, non-prismatic acrylic, .118" thick

OPTIONS/ACCESSORIES

For generic EM ballast options (must specify voltage), see Fluorescent Information section.

See Fluorescent Information section for accessories.

OCC SEN Occupancy sensor (15°F and above, must specify voltage)

OCC SEN LT Low temperature occupancy sensor (-20°F and above, must specify voltage)

OCC SEN LTAO Low temperature/alternating occupancy sensor (-20°F and above) (Only available in 120, 277, or 347 voltages, must specify; 4-lamps, using EB2/2 ballast configuration only.)

OPTIONS/ACCESSORIES (Continued)

S7238/B 72" cord, 3-conductor, No. 18 AWG, black

6CPI/L5-15P/TWLK 6' cord and NEMA twistlock 15 AMP plug, 120V

6CPI/L7-15P/TWLK 6' cord and NEMA twistlock 15 AMP plug, 277V

VBY (2) Y-hangers

VBY-3 (2) Y-hangers and (2) 3' chains

HUB MT 3/4" Cast iron hub and junction box for single 3/4" pendant mount

BALLAST TYPE

EB4 4-lamp electronic ballast

EB2/2 (2) 2-lamp electronic ballasts

EB4/2 (1) 4-lamp and (1) 2-lamp electronic ballast

VOLTAGE

Must specify voltage (not UNV or HRV) if using modular cord and plug, or occupancy sensor.

120 120V

208 208V

240 240V

277 277V

UNV 120-277V

347 347V

480 480V

HRV 347-480V

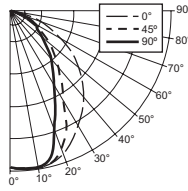
T5

PHOTOMETRY – 4 LAMPS

Catalog #: FZL-4-454T5H-MD-FCHA118-EB2/2

TEST REPORT INFORMATION

- ▶ Test Report #: 14332.0
- ▶ Date: 10/27/08
- ▶ Lamp Type: FP54T5H0/835/C
- ▶ Lamp Quantity: 4



Note: Test performed using amalgam lamps in a still air environment at an ambient temperature of 25°C.

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6746	34.4	38.7
0 - 40	10133	51.7	58.1
0 - 60	15320	78.2	87.9
0 - 90	17432	88.9	100.0
Total Luminaire:			
0 - 180	17432	88.9	100.0

Total Luminaire Optical Efficiency: **88.9%**
IES Spacing Criteria: End = 1.3, Diagonal = 1.1, Across = 0.9

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	9014	9014	9014	
5	9118	9133	9115	871.8
15	9046	9029	8651	2535.9
25	8261	7371	5823	3337.9
35	7086	4921	4025	3387.6
45	5790	3459	2735	2992.2
55	4258	2170	1745	2194.3
65	2519	1122	1326	1441.2
75	925	564	471	601.2
85	63	63	58	70.0
90	0	0	0	

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.70	.50	.80	.70	.50	.80	.70	.50	
Room Cavity Ratio	0	1.06	1.06	1.06	1.03	1.03	1.03	.99	.99	.99
	1	.99	.96	.93	.97	.94	.91	.90	.88	.86
	2	.92	.86	.81	.90	.85	.80	.82	.78	.75
	3	.85	.78	.72	.83	.76	.71	.74	.69	.65
	4	.79	.70	.64	.77	.69	.63	.67	.62	.58
	5	.73	.63	.56	.71	.62	.56	.60	.55	.50
	6	.68	.57	.50	.66	.57	.50	.55	.49	.45
	7	.63	.52	.45	.62	.52	.45	.50	.44	.40
	8	.58	.47	.41	.57	.47	.40	.46	.40	.35
	9	.54	.43	.36	.53	.42	.36	.41	.35	.31
	10	.50	.39	.33	.49	.39	.33	.38	.32	.28

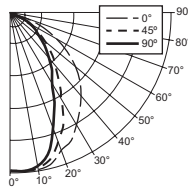
Effective Floor Cavity Reflectance = .20

PHOTOMETRY – 6 LAMPS

Catalog #: FZL-4-654T5H-MD-FCHA118-EB4/2

TEST REPORT INFORMATION

- ▶ Test Report #: 14279.0
- ▶ Date: 09/08/08
- ▶ Lamp Type: FP54T5H0/835/C
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	9296	31.6	39.1
0 - 40	13915	47.3	58.6
0 - 60	20972	71.3	88.3
0 - 90	23756	80.8	100.0
Total Luminaire:			
0 - 180	23756	80.8	100.0

Total Luminaire Optical Efficiency: **80.8%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.0, Across = 0.9

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	12788	12788	12788	
5	12864	12902	12877	1229.9
15	12596	12272	11723	3463.6
25	11399	9977	8381	4602.1
35	9653	6784	5799	4619.3
45	7783	4740	4016	4073.9
55	5624	2868	2594	2983.1
65	3267	2308	1746	1937.0
75	1172	685	661	776.4
85	62	62	62	70.9
90	0	0	0	

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.70	.50	.80	.70	.50	.80	.70	.50	
Room Cavity Ratio	0	.94	.94	.94	.91	.91	.91	.86	.86	.86
	1	.85	.81	.78	.83	.79	.76	.75	.73	.70
	2	.77	.71	.65	.75	.69	.64	.66	.62	.58
	3	.71	.62	.56	.69	.61	.55	.58	.53	.49
	4	.65	.55	.48	.63	.54	.47	.52	.46	.41
	5	.59	.48	.41	.57	.47	.41	.45	.39	.35
	6	.54	.43	.36	.52	.42	.35	.41	.35	.30
	7	.50	.39	.32	.48	.38	.31	.36	.30	.26
	8	.46	.35	.28	.44	.34	.27	.33	.27	.22
	9	.42	.31	.24	.41	.30	.24	.29	.23	.19
	10	.39	.28	.22	.38	.28	.21	.26	.21	.17

Effective Floor Cavity Reflectance = .20

FIXTURE DETAILS

BACK VIEW

